

(fw)

Confirmation No.: 6512

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Vahit H. Hacigumus et al.

Examiner:

Not Yet Assigned

Serial No.:

10/807,662

Group Art Unit:

2131

Filed:

March 24, 2004

Docket:

SVL920030133US1

Title:

**QUERY OPTIMIZATION IN ENCRYPTED DATABASE SYSTEMS** 

#### CERTIFICATE OF MAILING OR TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria AA 2/13 16-1450 on August 5, 2004.

By: T | Name: George H. Gates

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

We are transmitting herewith the attached:

Transmittal sheet, in duplicate, containing a Certificate of Mailing under 37 CFR 1.8.

Supplemental Information Disclosure Statement and Form PTO-1449.

Return postcard.

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers, if appropriate.

Please charge all fees to Deposit Account No. 50-0494 of Gates & Cooper LLP. A duplicate of this paper is enclosed.

**Customer Number 22462** 

**GATES & COOPER LLP** 

Howard Hughes Center 6701 Center Drive West, Suite 1050 Los Angeles, CA 90045 (310) 641-8797 By:\_

Name: George H. Gates

Reg. No.: 33,500

GHG/jml



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Vahit H. Hacigumus et al.

Examiner:

Not Yet Assigned

Serial No.:

10/807,662

Group Art Unit:

2131

Filed:

March 24, 2004

Docket:

SVL920030133US1

Title:

QUERY OPTIMIZATION IN ENCRYPTED DATABASE SYSTEMS

### CERTIFICATE OF MAILING OR TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-

1450 on August 5, 2004.

Name: George H. Cates

# SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(d)(2), a copy of each document or other information listed on the enclosed Form 1449 is not provided because it was previously cited by or submitted to the U.S. Patent and Trademark Office in parent application, U.S. Serial No. 10/449,421 filed on May 30, 2003.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to

establish that the reference(s) are not "prior art". Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Date: August 5, 2004

Please direct any response or inquiry to the below-signed attorney at (310) 641-8797.

Respectfully submitted,

**GATES & COOPER LLP** Attorneys for Applicant(s)

Howard Hughes Center 6701 Center Drive West, Suite 1050 Los Angeles, California 90045

(310) 641-8797

Name: George H. Gates

Reg. No.: 33,500

GHG/jml

Form 1449*	Docket Number: SVL920030133US1	Application Number: 10/807,662
INFORMATION DISCLOSURE STATEMENT	Applicant: Vahit H. Hacigumus et al.	
in an application	Filing Date: March 24, 2004	Group Art Unit: 2131

U.S. PATENT DOCUMENTS SUBCLASS FILING DATE IF NAME CLASS XAMINER DOCUMENT NO. DATE APPROPRIATE INITIAL FOREIGN PATENTS TRANSLATION **CLASS SUBCLASS** COUNTRY DOCUMENT NO. DATE YES NON-PATENT DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Copies of References **NOT** Required Adam, N.R., "Security-Control Methods for Statistical Databases: A Comparative Study", ACM Computing Surveys, Vol. 21., No. 4, pp. 515-556, December 1989. Agrawal, R., et. al., "Watermarking Relational Databases", Proc. Of the 28th VLDB Conference, Hong Kong, China, 2002. Agrawal, R., et. al., "Hippocratic Databases", Proc. Of the 28th VLDB Conference, Hong Kong, China, Bouganim, L., et al., "Chip-Secured Data Access: Confidential Data on Untrusted Servers" Proc. Of the 28th VLDB Conference, Hong Kong, China, 2002. Buell, D. A., et al., "A Multiprecise Integer Arithmetic Package", The Journal of Supercomputing 3, pp. 89-107, Kluwer Academic Publishers, March 1989. Cho, J. "A Fast Regular Expression Indexing Engine", Proc. Of International Conference on Data Engineering, 2002, pp.1-12. Digital Bibliography & Library Project. http://dblp.uni-trier.de/., May 24, 2004 Federal Information Processing Standards Publication, "Announcing the Advanced Encryption Standard (AES)", Publication 197, pp. 1-47, November 26, 2001. Federal Information Processing Standards Publication, "Data Encryption Standard (DES)", Publication 46-3, pp. 1-22, October 25, 1999. Gaines, H., "Cryptanalysis; a study of ciphers and their solutions" Dover 1956, http://wwwmath.cudenver.edu/~wcherowi/courses/m5410/engstat.html. Granlund, T., "GNU MP, The GNU Multiple Precision Arithmetic Library" TMG Datakonsult, Edition 2.0.2, pp. 1-41, June 1996. Hacigumus, H., et al., "Encrypted Database Integrity in the Database Service Provider Model," In Proc. of International Workshop on Certification and Security in E-Services (CSES'02), IFIP WCC, 2002. He, J., et al., "Cryptography and relational database management systems" In Proc. of International Database Engineering & Applications Symposium, 2001. Ioannidis, Y.E., et al., "Histogram-Based Approximation of Set-Valued Query Answers" Proc. Of the 25th VLDB Conference Edinburgh, Scotland, pp. 174-185, 1999.

EXAMINER:	DATE CONSIDERED:	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in		
conformance and not considered. Include copy of this form for next communication to the Applicant.		

Form 1449\*
INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION

Docket Number: SVL920030133US1 Application Number: 10/807,662

Applicant: Vahit H. Hacigumus et al.

Filing Date: March 24, 2004 Group Art Unit: 2131

Salar	ISO/IEC, "Information Technology - Database Language SQL (Proposed revised text of DIS 9075)" July 30, 1992.
	Jagadish, H.V., et al., "Global Optimization of Histograms" ACM SIGMOND, Santa Barbara, California, May 21-24, 2001.
	Menezes, A.J., et al., "Handbook of Applied Cryptography, pg. 41-45, CRC Press 1997.
	Piatetsky-Shapiro, G., et al., "Accurate Estimation of the Number of Tuples Satisfying a Condition" ACM, pp. 256-276, 1984.
	Rivest, R.L., et al., "A Method for Obtaining Digital Signatures and Public-Key Cryptosystems", Communications of ACM, 21(2), pp. 1-15, 1978.
	Schneier, B., "Description of a New Variable-Length Key, 64-Bit Block Cipher (Blowfish)", Fast Software Encryption, Cambridge Security Workshop Proceedings, Springer-Verlag, pp.191-204, 1994.
	Serpette, B., "BigNum: a portable and efficient package for arbitrary-precision arithmetic," Technical Report 2, Digital Equipment Corporation and INRIA, pp. 1-29, 1989.
	Shand, M., et al., "Hardware speedups in long integer multiplication" In Proc. of ACM Symposium on Parallel Algorithms and Architectures, pp. 138-145, 1990.
	Silberschatz, A., et al., "Database System Concepts", Third Edition, WCB McGraw-Hill, pp.418-426, 1997.
	Song, D.X., et al., "Practical Techniques for Searches on Encrypted Data", In Proc. IEEE, pp. 44-56, 2000.
	Traub, J.F., et al., "The statistical security of a statistical database," ACM Transactions on Database Systems (TODS), Vol. 9, No. 4, pp. 672-679, 1984.
	Vulliemin, J. et al., "Programmable active memories: Reconfigurable systems come of age," IEEE Transactions on VLSI Systems, Vol. 4, Issue 1, pp. 56-69, 1996.
	Winslett, M. "Jeffrey D. Ullman Speaks Out on the Future of Higher Education Startups, Database Theory, and More" SIGMOND Record, Vol. 30, No. 3, 2001.

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.